

Abstract

The invention relates to an apparatus for photometric measurement of concentration of a chemical substance in a solution (11), wherein a cuvette (3) is provided containing the solution (11), wherein the cuvette (3) is transmissive at least in predetermined regions (12, 13) for electromagnetic radiation, wherein a transmitting unit (2) is provided, which produces electromagnetic radiation in at least two wavelength regions and which radiates into the cuvette, wherein the electromagnetic radiation in a first wavelength region serves for measurement purposes and wherein the electromagnetic radiation in a second wavelength region is used for reference purposes, and wherein the electromagnetic radiation in the two wavelength regions takes the same path through the cuvette (3) and through the solution (11), wherein at least one detector unit (4) is provided, which is so arranged that it receives the electromagnetic radiation in the at least two wavelength regions following passage through the solution (11), and wherein a control/evaluation unit (14) is provided, which determines the concentration of at least one chemical substance in the solution (11) on the basis of the electromagnetic radiation detected in the two wavelength regions.

(Fig. 1)